Lab Logistics Group

LABORTOPS

valid until 15th April 2015

NEW!

LLG LABWARE

more new products from page 11 onwards

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Special prices

For more articles see our Laboratory Catalogue from page 13, 18, 22 onwards

Beakers, DURAN®, low form

With approximate graduations and spout. DIN 12331. ISO 3819. With easy-to-read scale and large labelling field for easy marking. In fired-on, highly durable white ceramic. Due to the uniform wall thickness, it is suitable for use as a heating vessel. Glass Type I/neutral as per USP, EP and JP. With retrace code (Batch Identification, for all) except 5ml, 10ml and 25ml. Certificate available via the Internet. Autoclavable.

Capacity	Diam.	Height	PK	Cat. No.
ml	mm	mm		
5*	22	30	1	9.013 007
10*	26	35	1	9.013 008
25	34	50	1	9.013 014
50	42	60	1	9.013 017
100	50	70	1	9.013 024
150	60	80	1	9.013 029
250	70	95	1	9.013 036
400	80	110	1	9.013 041
600	90	125	1	9.013 048
800	100	135	1	9.013 053
1000	105	145	1	9.013 054
2000	132	185	1	9.013 063
3000	152	210	1	9.013 068
5000	170	270	1	9.013 073

* Without graduations.

Beakers, DURAN®, tall form

With approximate graduations and spout. DIN 12331. ISO 3819. With easy-to-read scale and large labelling field for easy marking, in fired-on, highly durable white ceramic. Due to the uniform wall thickness, it is suitable for use as a heating vessel. Glass Type I/neutral glass as per USP, EP and JP. With retrace code (Batch Identification). Certificate available via the Internet. Autoclavable.

Capacity	Diam.	Height	PK	Cat. No.
ml	mm	mm		
50	38	70	1	9.013 117
100	48	80	1	9.013 124
150	54	95	1	9.013 129
250	60	120	1	9.013 136
400	70	130	1	9.013 141
600	80	150	1	9.013 148
800	90	175	1	9.013 153
1000	95	180	1	9.013 154
2000	120	240	1	9.013 163
3000	135	280	1	9.013 168

Erlenmeyer flasks, DURAN®, wide neck

With approximate graduations and beaded rim. DIN EN ISO 24450. Wide neck. With Retrace Code (Batch Identification), certificate available via the Internet. Uniform wall thickness. Glass type I/neutral glass as per USP, EP and JP. Autoclavable.

Capacity	Bottom diam.	Neck diam.	Height	PK	Cat. No.
ml	mm	mm	mm		
25*	43	31	70	1	9.141 114
50	51	34	85	1	9.141 117
100	64	34	105	1	9.141 124
200	79	50	131	1	9.141 132
250	85	50	140	1	9.141 136
300	87	50	156	1	9.141 139
500	105	50	175	1	9.141 144
1000	131	50	220	1	9.141 154
2000*	153	72	276	1	9.141 163

* Not to DIN.

Graduated jugs, PP, moulded blue graduations

VITLAB
Competence in Labware

Highly transparent. With easily readable, raised, embossed blue scale and stable, easy-grip handle. To preserve markings, do not clean at temperatures exceeding 60°C.
Conditionally autoclavable at 121°C (2 bar) according to DIN EN 285.
Food-safe (suitable for contact with food according to EC Directive No. 10/2011).

Capacity	Grad.	Diam.	Height	PK	Cat. No.
ml	ml	mm	mm		
50	2	40	70	1	9.275 772
100	2	50	80	1	9.275 773
250	5	70	120	1	9.275 748
500	10	91	133	1	9.275 775
1000	10	116	170	1	9.275 776
2000	20	150	215	1	9.275 777
3000	50	170	242	1	9.275 778
5000	100	210	270	1	9.275 779

For more articles see our Laboratory Catalogue from page 186, 201, 237 onwards

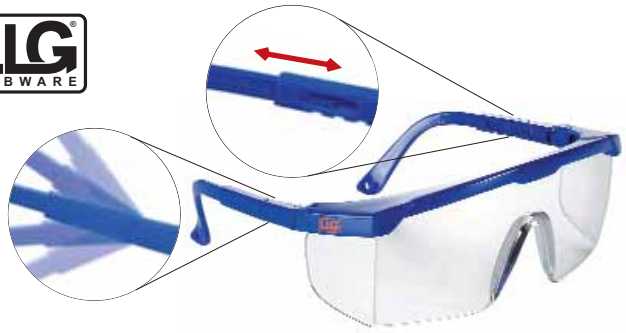
LLG-Safety eye shields "Basic"

Value pack of 10 glasses

- CE approved to EN166 and EN170
- Perfect for visitors as well as overshields for spectacle wearers
- Integrated sideshields with venting, 180° visual field
- Frame made of tested hypo-allergenic material
- 100% UV protection (up to 380 nm)
- Weight: 43 g

Colour	Lens	PK	Cat. No.
Clear	Clear, uncoated	10	9.006 002

LLG-Safety eye shields "Classic"



- CE approved to EN166 and EN170
- Integrated sideshields, 180° visual field
- Frame made of tested hypo-allergenic material
- Temples adjustable in length and inclination
- 100% UV protection (up to 380 nm)
- Weight: 34 g only

Colour	Lens	PK	Cat. No.
Blue	Clear, anti-scratch lens	1	9.006 001

Halfmask, Serie 4000 Plus, ready to use

The 4000 Series Respirators by 3M™ are a range of ready-to-use, maintenance-free half masks with built in filters designed for effective and comfortable protection against a combination of many gases, vapours and particulate hazards found throughout the industry. A unique filter technology enables a very low-profile design for undisturbed field of vision to make your worklife more comfortable.

Features and Benefits:

- Low profile design for better peripheral vision
- Lightweight, well balanced design
- Soft, non-allergenic material with textured face seal
- One piece, maintenance-free construction
- Central position of the exhalation valve for effective removal of heat and moisture build up within face piece
- Easy to fasten neck strap
- Use until damaged, particulate filters clog or gas filters become saturated

Type	Protection-level	Usage restrictions	PK	Cat. No.
4251	FFA1P2 R D	12 x TLV	1	6.072 615
4255	FFA2P3 R D	50 x TLV	1	6.802 700
4277	FFABE1P3 R D	50 x TLV	1	6.202 909
4279	FFABEKP3 R D	50 x TLV	1	6.073 056

LLG-Overall tritex® pro white, Type 5/6

Particle-tight, and to a limited extent spray-tight chemical protective clothing

The coverall made of 3-layer SMS material (spunbond-meltblown-spunbond) is robust and breathable. A meltblown filter membrane is embedded between two durable outer layers. Comfortable to wear, this coverall is a pleasant, protective companion in many work areas. Special features are the hood, the zipper cover strip, the back rubber element, and the arm and leg rubber elements.

Cat. III/CE0321/Type 5/6

Coverall individually packed!

special offer!

Size	PK	Cat. No.
M	25	6.262 285
L	25	9.413 245
XL	25	9.413 246
XXL	25	9.413 247

Highest quality at a great price!

For more articles see our Laboratory Catalogue from page 706 onwards

Syringe filter CHROMAFIL™, Cellulose mixed ester (MV)

Hydrophilic membrane
This membrane is recommended for all filtrations in aqueous or polar organic samples.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
25	0.20	PP-yellow/yellow	100	9.049 030
25	0.20	PP-yellow/yellow	400	9.049 031
25	0.45	PP-colourless/yellow	100	9.049 032
25	0.45	PP-colourless/yellow	400	9.049 033

Syringe filter CHROMAFIL™, Glass-fibre (GF)

Inert Filter, nominal pore size 1µm, allows higher flow rates than smaller pore filters; for solutions with high loads of particulate matter or for highly viscous solutions (e.g. soil samples, fermentation broths) as prefilters for other CHROMAFIL® filters, they prevent plugging of the membrane.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
25	1.00	PP-yellow/black	100	9.049 078

Syringe filter CHROMAFIL™, Polyamide/Nylon (PA)

Hydrophilic membrane
The membrane is recommended for filtration of aqueous and organic/aqueous medium polar liquids.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
25	0.20	PP-yellow/green	100	9.049 049
25	0.20	PP-yellow/green	400	9.049 050
25	0.45	PP-colourless/green	100	9.049 051
25	0.45	PP-colourless/green	400	9.049 052

Syringe filter CHROMAFIL™, regenerated Cellulose (RC)

Hydrophilic membrane with very low adsorption for aqueous and organic/aqueous liquids i.e. polar and medium polar sample solutions. Binding capacity for proteins 84µg/25mm filter.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
25	0.20	PP-yellow/blue	100	9.049 042
25	0.20	PP-yellow/blue	400	9.049 043
25	0.45	PP-colourless/blue	100	9.049 044
25	0.45	PP-colourless/blue	400	9.049 046

Syringe filter CHROMAFIL™, Cellulose acetate (CA)

Hydrophilic membrane
For filtration of water-soluble oligomers and polymers, especially suited for biological macromolecules. Very high shape stability in aqueous solutions extremely low binding capacity for proteins (21µg/ 25mm filter). Available in a sterile package for filtration under sterile conditions (each filter individually sealed) upon request.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
25	0.20	PP-yellow/red	100	9.049 038
25	0.20	PP-yellow/red	400	9.049 039
25	0.45	PP-colourless/red	100	9.049 040
25	0.45	PP-colourless/red	400	9.049 041

Syringe filter CHROMAFIL™, Polyester (PET)

Hydrophilic multipurpose membrane
For polar as well as non-polar solvents. The HPLC filter, especially suited for mixtures of water and organic solvents; for TOC/DOC determination; not cytotoxic, does not inhibit the growth of microorganisms and higher cells. Polyester filter with integrated glass fibre prefilter (GF/PET): recommended for solutions with a high load of particulate matter or for highly viscous solutions.

Filter diam. mm	Pore size µm	Housing	PK	Cat. No.
15	0.20	PP-yellow/orange[1)]	100	9.049 065
15	0.45	PP-colourless/orange[1)]	100	9.049 066
25	0.20	PP-yellow/orange	100	9.049 067
25	0.20	PP-yellow/orange	400	9.049 068
25	0.45	PP-colourless/orange	100	9.049 069
25	0.45	PP-colourless/orange	400	9.049 070
25	1.0/0.20	PP-black/orange[2)]	100	9.049 079
25	1.0/0.45	PP-black/orange[2)]	100	9.049 080

[1)] with mini tip outlet
[2)] with glass-fibre prefilter

For more articles see our Laboratory Catalogue from page 1381, 1470 onwards

LLG-2in1 Chromatography Kits

practical and efficient

2in1 kits contain 100 vials and 100 closures in a blue PP-Box. As both components are always required at the same time. 2in1 kits are a convenient way to obtain and store all required items for analysis. All advantages of the individual components (cleanroom packaging of the vials, recloseability of the packaging, etc.) remain unchanged.
Bottle volume: 1.5ml
Any other combination of vial and seal as a 2in1 kit available.

with Screw Neck Vials ND8 (small opening)

Description	Cover type	PK	Cat. No.
clear	Screw Cap, black, hole, Silicon white / PTFE red	100	6.238 965
amber	Screw Cap, black, hole, Silicon white / PTFE red	100	9.003 557
amber, labelling field	Screw Cap, black, hole, Silicon white / PTFE red	100	9.003 558
clear, labelling field	Screw Cap, black, hole, Silicon white / PTFE red	100	9.003 559

with Short Thread Vials ND9 (wide opening)

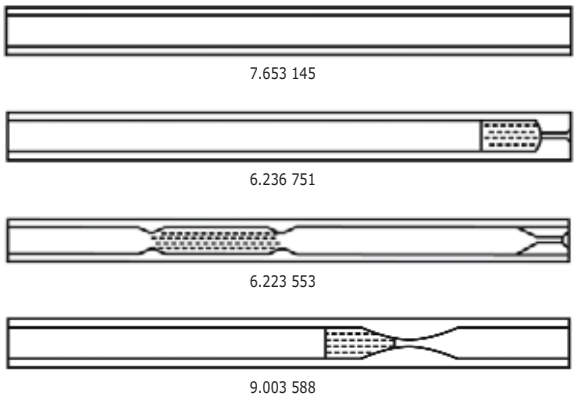
Description	Cover type	PK	Cat. No.
clear	Short Thread Cap, blue, hole, Silicon white / PTFE red	100	9.003 560
clear	Short Thread Cap, blue, hole, Silicon white / PFE blue, slitted	100	7.621 765
clear	Short Thread Cap, transparent, hole, Silicon white / PTFE red	100	9.003 561
clear	Short Thread Cap, transparent, hole, natural rubber / PP red-orange	100	7.620 724
clear, labeling field	Short Thread Cap, blue, hole, Silicon white / PFE blue, slitted	100	9.003 562
clear, labeling field	UltraClean Short Thread Cap, blue, hole, Silicon white / PFE blue, slitted	100	7.970 892
amber, labeling field	UltraBond Short Thread Cap, blue, hole, Silicon beige / PTFE white, slitted	100	9.003 563

with Crimp Neck Vials ND11 (wide opening)

Description	Cover type	PK	Cat. No.
clear	Crimp Cap, silver, hole, Natural Rubber red-orange / TEF transparent	100	6.257 139
clear	Crimp Cap, silver, hole, Natural Rubber / Butyl red-orange / TEF transparent	100	9.003 564
clear, labeling field	Crimp Cap, silver, hole, Natural Rubber / Butyl red-orange / TEF transparent	100	9.003 565
amber, labeling field	Crimp Cap, silver, hole, Natural Rubber red-orange / TEF transparent	100	9.003 566
clear	UltraClean Crimp Cap, silver, hole, Silicon white / PTFE red	100	6.238 979

Inlet Liner for GC

SGE Analytical Science



Liners come individually packed complete with instrument appropiate o-rings and sealing rings.
Each pack is supplied with quality test results.

for Shimadzu GC

Description	Ext. diam. mm	Int. diam. mm	PK	Cat. No.
Split / Splitless Tapered FocusLiner™	5.0	3.4	5	6.228 225
Split, Straight-through Liner	5.0	3.4	5	6.265 473
Split / Splitless with Single Taper	5.0	3.4	5	6.265 474
Split / Splitless with middle gooseneck	5.0	3.4	5	6.265 475

Special price!

for Thermo GC

Description	Ext. diam. mm	Int. diam. mm	PK	Cat. No.
Split FocusLiner™	8.0	5.0	5	6.265 466
Splitless FocusLiner™	8.0	5.0	5	6.265 467
Splitless with Single Taper	8.0	5.0	5	6.265 468
Splitless, Straight-through Liner	8.0	3.0	5	6.265 469
Split, Straight-through Liner	8.0	5.0	5	6.265 470
Trace 2000 PTV Liner	2.8	1.75	5	7.630 911

Special price!

for Agilent GC

Description	Ext. diam. mm	Int. diam. mm	PK	Cat. No.
Split, Straight-through Liner	6.3	4.0	5	7.653 145
Split, with Quartz wool	6.3	4.0	5	9.003 576
Split / Splitless with Single Taper (Quartz Wool)	6.3	4.0	5	6.236 751
Split/Splitless Focus Liner	6.3	4.0	5	6.223 552
Split/Splitless Focus Liner	6.3	4.0	25	6.239 332
Split/Splitless Tapered Focus Liner	6.3	4.0	5	6.223 553
Split/Splitless Tapered Focus Liner	6.3	4.0	25	9.003 572
Split/Splitless FAST Focus Liner	6.3	2.3	5	6.223 554
Split/Splitless Tapered FAST Focus Liner	6.3	2.3	5	9.003 586
Split/Splitless Recessed Gooseneck (Quartz Wool)	6.3	4.0	5	9.003 588
ConnecTite Liner Bottom Hole	6.3	4.0	5	9.003 587

For more articles see our Laboratory Catalogue from page 1227, 1233, 1299 onwards

NEW!

LLG-Temperature block "exact", aluminium, for cryogenic tubes with rim, single-handed operation

Practical one-hand operation

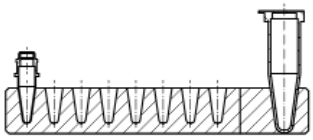
unique cooling solution

Simultaneous single-handed operation and cooling of cryogenic vials
The cryogenic tubes are fixed in the cavities with a pin so that they can be opened and closed with one hand. Suitable for most cryogenic tubes with rim or notch such as LLG Labware. Cryogenic tubes are cooled by uniform temperature distribution in the block, ideal for temperature-critical work. The closed bottom of the block provides a much better temperature distribution and temperature accuracy over the block compared to blocks with open bottom. Made of a special aluminium alloy with high thermal conductivity. Thus, the block has identical temperature conditions for all samples.

Description	PK	Cat. No.
25 x 2.0ml Cryogenic tubes with tripod rim	1	9.409 007

LLG-Temperature block "exact", aluminium

Perfect fit



Suitable for both cooling and heating, universally usable, uniform temperature distribution within the block, ideal for all temperature-sensitive applications.

Aluminium blocks with conical compartments and closed bottom for easy and precise tempering of reaction tubes and PCR tubes. The precisely adapted shape of the borings and the closed bottom offer advantages compared with cylindrical drilled blocks with open bottom such as much better heat transfer and temperature accuracy. Made of a special aluminium alloy with high thermal conductivity. Identical temperature conditions for all samples. Compact size, requiring little space. Suitable for 96-well plates, 8 or 12 strips and single tubes. Ideal for working with 8- or 12-channel pipettes. Blocks for different tube sizes and combinations of tube sizes as indicated, all working steps in one block, holes closed at the bottom and tapered to fit perfectly the respective tube sizes and offer an optimum heat exchange.

Description	PK	Cat. No.
LLG-aluminum block, 96 x 0.2ml PCR tubes + 6 x 1.5ml tubes	1	9.409 015
LLG-aluminum block, 36 x 0.5ml tubes + 11 x 1.5ml tubes	1	9.409 016
LLG-aluminum block, 24 x 1.5ml tubes	1	9.409 017
LLG-aluminum block, 24 x 2.0ml tubes	1	9.409 018
LLG-aluminum block, 25 x 2.0ml Cryogenic tubes with round bottom	1	9.409 006
LLG-aluminum block, 12 x 15.0ml Centrifuge tubes	1	9.409 008

LLG-PCR-Tubes, 8 Strips, PP

For 0.2ml thermal cycler blocks, and 96-well v-bottom thermal cyclers
- made of virgin polypropylene, certified RNase, DNase and endotoxin free
- consistent wall thickness for uniform heat transfer
- highly transparent cap makes them ideal for qPCR/Real Time PCR
- contamination-free opening
- cap strips provide tight seal during all PCR cycles
- maximum tube capacity: 0.25ml when capped

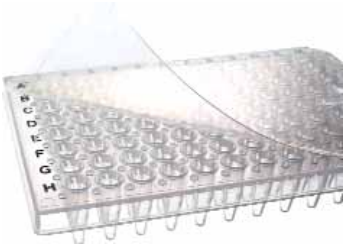
Description	PK	Cat. No.
8 PCR tube strips plus detached cap strips, domed caps	250	9.407 503
8 PCR tube strips plus detached cap strips, flat caps	250	9.407 514
8 PCR detached cap strips, flat caps	120	6.254 729
8 PCR detached cap strips, domed caps	120	9.407 522

LLG-96-well PCR Plates, PP

- compatible with leading thermal cyclers
- cut-away corner for easy orientation
- clear well bottom for sample visibility, with V-Bottom
- consistent wall thickness for uniform heat transfer
- holes in the skirt for easy handling
- made of virgin polypropylene, certified RNase, DNase and endotoxin free

Description	Capacity µl	PK	Cat. No.
with frame, low profile	200	25	9.407 507
without frame	300	25	6.238 061

LLG-PCR adhesive film and foil



For use in cyclers with screw-down or clip-down lids. With end tabs.

PCR Film: Suitable for fluorescence measurements.
PCR Foil: Easy Piercable without adhesive on the pipette tips.

Description	Temp. range °C	PK	Cat. No.
PCR film	-20 to +120	100	6.238 132
PCR foil	-80 to +150	100	9.407 506

For more articles see our Laboratory Catalogue from page 1235, 1240, 1243 onwards

Gel electrophoresis tank multiSUB™ Choice

Cleaver Scientific Ltd

Special price!

Ideal for restriction fragment analysis, sample prep or checking of high number of samples. The multiSUB choice offers a high degree of versatility. Gel casting is easy by using casting dams.
- colour coded combs 0.75/1.0 /1.5/2.0mm
- low buffer volume: 500ml
- injection moulded construction: durable, leakproof environment for complete safety and long life

Supplied with:
MSCHOICE15: multiSUB™ Choice, 15 x 15cm UV Tray, 2 x 20 sample combs, loading guides, electrodes and dams.
MSCHOICETRIO: multiSUB™ Choice Trio, 15 x 7, 10 & 15cm UV Tray, 2 x 20 sample combs, loading guides, electrodes and dams.

Specifications

Unit dimensions (w x l x h):	26.5 x 17.5 x 9cm
Max. sample:	15 x 7cm Tray - 70 Samples 15 x 10cm Tray - 140 Samples 15 x 15cm Tray - 210 Samples
Buffer volume:	500ml

Type	Description	PK	Cat. No.
MSCHOICE15	multiSUB™ Choice 15	1	9.584 651
MSCHOICETRIO	multiSUB™ Choice Trio	1	6.239 273

Agarose for gel electrophoresis

Special price!

Cleaver Scientific Ltd

Specifications

CAS:	9012-36-6
Appearance:	White to off-white powder
EEO:	<0.13
Gelling Point:	36°C ±1.5°C (1.5 % gel)
Melting Point:	88°C ±1.5°C (1.5 % gel)
Solubility:	Clear, colourless solution at 1g in 100ml water
Moisture:	≤10%
Gel Strength:	>1200 g/cm² (1% Gel)
Sulphate:	≤0.20%
DNase, RNase, Protease, Endonuclease:	None Detected

Type	Capacity g	PK	Cat. No.
CSL-AG100	100	1	9.584 695
CSL-AG500	500	1	9.584 696

Thermal cyclers biostep® PRIME/ PRIMEG

TECHNE

High throughput Thermal cycler - perfect for a high sample throughput
- Gradient function
- Upgrade from PRIME to PRIMEG
- 5.7" colour touch screen with graphical display
- fast heating and cooling rates, temperature from 100°C to 115°C, with ON/OFF switch and automatic switch off against overheating
- height-adjustable and heatable lid
- 1000 programs storable
- Auto-Restart function
- USB port
- 4 years warranty for the Prime Thermal cycler

Specifications

Block temperature:	+4°C to +100°C
Temperature gradient (PRIME only with upgrade):	+30°C to +80°C
Max. Gradient:	+29°C
Block uniformity at 55°C:	<±0.3°C
Max. Heating rate:	3.4°C/s
Dimensions (WxDxH):	240 x 420 x 240mm

Type	Description	PK	Cat. No.
PRIME	incl. block for 96 x 0.2ml tubes and 96well PCR plates	1	9.595 509
PRIMEG	incl. block for 96 x 0.2ml tubes and 96well PCR plates	1	9.595 512

Purchase of this instrument conveys a limited non-transferable immunity for the purchaser's own internal research and development and applied fields other than human in vitro diagnostics under non-real-time thermal cycler patents of Applied Biosystems LLC.

Compact UV transilluminators

- Compact design (34 x 28cm)
- Metal housing, with stainless steel filter frame and "long life" filter
- BECXF models have intensity selector (Hi/Lo)
- Filter size: 200 x 200mm
- Tubes: 8W

Type	Description	Wave-length nm	No. of Tubes	PK	Cat. No.
BECXF-20.M	Hi / Lo Intensity	312	6	1	9.971 910
BTCP-20.MC	Multi-band	254 / 312	5 / 6	1	9.971 913

For more articles see our Laboratory Catalogue from page 590, 598, 606, 636 onwards

Round bottom flasks, ground glass joint, DURAN®

Acc. to DIN 4797.

Capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
10	14/23	35	1	9.011 801
25	14/23	41	1	9.011 802
50	14/23	51	1	9.011 805
50	29/32	51	1	9.011 835
100	14/23	64	1	9.011 810
100	29/32	64	1	9.011 840
250	14/23	85	1	9.011 815
250	29/32	85	1	9.011 845
500	29/32	105	1	9.011 850
1000	29/32	131	1	9.011 855

Flat bottom flasks, ground glass joint, DURAN®

Acc. to DIN EN ISO 4797. With standard ground sockets acc. to DIN 12242.

Capacity ml	Socket NS	Flask external diam. mm	Flask diam. mm	PK	Cat. No.
50	29/32	90	51	1	9.011 982
100	29/32	100	64	1	9.011 983
250	29/32	130	85	1	9.011 984
500	29/32	155	105	1	9.011 985
1000	29/32	190	131	1	9.011 986

Up to 100ml made of DURAN® tubing.

Clips for joints, POM

Manufactured from POM and has excellent chemical resistance as well as a very good mechanical strength. They are perfect tools to join two ground joints.

NS	Colour	PK	Cat. No.
10/19	black	1	4.008 347
12/21	purple	1	4.008 348
14/23	yellow	1	4.008 349
19/26	blue	1	4.008 350
24/29	green	1	4.008 351
29/32	red	1	4.008 352

Erlenmeyer flasks, ground glass joint, DURAN®

Acc. to DIN EN ISO 4797.

Capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
25	14/23	42	1	9.012 001
50	14/23	51	1	9.012 002
50	29/32	51	1	9.012 012
100	14/23	64	1	9.012 003
100	29/32	64	1	9.012 013
200	29/32	79	1	9.012 017
250	29/32	85	1	9.012 014
250	45/40	85	1	9.012 006
300	29/32	87	1	9.012 018
300	45/40	87	1	9.012 007
500	29/32	105	1	9.012 015
500	45/40	105	1	9.012 008
1000	29/32	131	1	9.012 016
1000	45/40	131	1	9.012 009
2000	29/32	166	1	9.012 019
2000	45/40	166	1	9.012 010

Pear shape flasks, ground glass joint, DURAN®

Acc. to DIN 12383.

Capacity ml	Socket NS	Flask diam. mm	PK	Cat. No.
10	14/23	33	1	9.012 021
25	14/23	42	1	9.012 022
50	14/23	51	1	9.012 023
100	14/23	64	1	9.012 024

Glass beads

Made of AR lime soda glass. Supplied in packs of approx. 1kg.

Ø mm	PK	Cat. No.
1.5 - 2	1	9.012 402
3	1	9.012 403
4	1	9.012 404
5	1	9.012 405
6	1	9.012 406
8	1	9.012 407
10	1	9.012 408

For more articles see our Laboratory Catalogue from page 418, 444 onwards

Set: RCT standard safety control package incl. ETS-D5 and stand accessories

Magnetic stirrer with digital contact thermometer:
- integrated temperature control
- incl. PT 1000 temperature sensor (PT 1000.60) + ETS-D5
- exact temperature and speed setting via digital display, even when switched off
- digital display of set safety temperature limit
- hot top indicator, hot surface warning to prevent burns
- digital error code display
- with adjustable safety circuit of heating plate temperature (+50 to +360°C)
- safety magnetic stirrer with heating, suitable for unsupervised operation
- DIN 12878 connector for attaching a contact thermometer, e.g. ETS-D5; enables precise temperature control directly in the heated medium
- enhanced safety due to improved heat control technology
- enclosed assembly (IP42) guarantees long service life
- highly polished, aluminium hotplate for optimal heat transfer
- improved magnetic coupling
- supplied with housing protection cover H 98

Package price!

beaker not included

Specifications

Stirring quantity (H_2O):	20 litres
Motor rating input/output:	16/9W
Speed display:	digital
Speed range:	50 to 1500rpm
Max. magnetic bar (L x diam.):	80 x 10mm
Heating function	
Temperature display:	digital
Heat output:	600W
Heating rate (1 litre H_2O in H 15):	6.5K/min
Temperature range:	RT to 310°C
Setting accuracy:	±1K
Temp. variation without temp. sensor:	±2K
Adjustable safety circuit:	50 to 360°C
Control accuracy with sensor:	PT 1000/±1K ETS-D5/±0.5K
Heating plate	
Material:	aluminium alloy
Dimensions:	135mm diam.
General data	
Dimensions (WxDxH):	160 x 270 x 85mm
Weight:	2.5kg
Operating temperature range:	5 to 40°C
Operating humidity range:	80% R.H.
Protection class acc. to DIN EN 60529:	IP42

Type	PK	Cat. No.
RCT standard safety control package incl. ETS-D5 and stand accessories	1	9.720 258

LLG-Universal reaction block system for magnetic stirrers

Universal alternative to oil bath

The reaction block allows syntheses to be carried out in round flasks at temperatures of up to 250°C. As a result, oil as a heat transfer media, is made redundant and your lab is a safer place with this system. The reaction block ensures safety at work and preventing oil baths and heating mantles from overheating in your lab. The messy oil clean-ups that results from changing oil or removing flasks from an oil bath will be eliminated. Injuries and burns from hot oil will never happen again. Uniform mixing is also guaranteed because there is no interference to the magnetic field from the aluminium blocks. This system ensures optimal heat transfer from the heating plate directly into the medium.

- Universal model
- For round plates of 135 to 145mm diameter
- With adapter plate for all square plates of min. 145mm length side

- Reaction blocks are available in 5 standard sizes.
- Delivered adapter allows for use with either IKA or Heidolph magnetic stirrers.
- Syntheses in round flasks without oil bath up to 250°C.
- Uniform and constant mixing
- High-precision thermal conduction directly into the reaction block
- Safe and clean working
- Made in Germany

Description	PK	Cat. No.
LLG-Universal reaction block system 50ml	1	9.728 890
LLG-Universal reaction block system 100ml	1	9.728 891
LLG-Universal reaction block system 250ml	1	9.728 892
LLG-Universal reaction block system 500ml	1	9.728 893
LLG-Universal reaction block system 1000ml	1	9.728 897
Spare adapter ring for reduction from 145mm to 135mm, for attachment 50 to 500ml	1	9.728 894
Adapter plate for rectangular hotplates, for attachment 50 to 500ml	1	9.728 895

For more articles see our Laboratory Catalogue from page 138, 141 onwards

Versilic® silicone tubing

Special price!

SAINT-GOBAIN

Pure silicone with high-grade properties. Suitable for food use to FDA, BGA and EU guidelines. Temperature range from -60 to +200°C (up to +220°C for short periods). Transparent to translucent. Shore A 62 ±5. Density 1.16. Biologically neutral.
Supplied per metre or in standard coils of 25m.

Int. diam. mm	Ext. diam. mm	Wall thickness mm	PK	Cat. No.
0.50	2.5	1.00	1	9.205 300
1.00	3.0	1.00	1	9.205 301
2.00	4.0	1.00	1	9.205 302
3.00	5.0	1.00	1	9.205 303
4.00	6.0	1.00	1	9.205 304
5.00	7.0	1.00	1	9.205 305
6.00	10.0	2.00	1	9.205 275
7.00	11.0	2.00	1	9.205 306
8.00	12.0	2.00	1	9.205 285
9.00	13.0	2.00	1	9.205 307
10.00	14.0	2.00	1	9.205 308
12.00	17.0	2.50	1	9.205 309

Iso-Versinic Tubing

Special price!

SAINT-GOBAIN

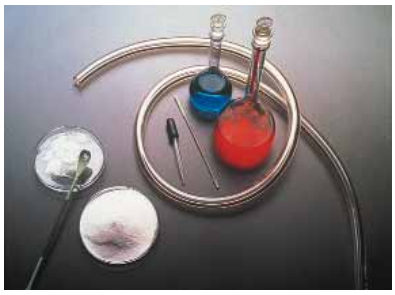
Synthetic fluoroelastomer. Impermeable to gas and steam.
Shore A, hardness see table below. Density 1.9. Temperature range -20°C to +200°C (up to +300°C for short periods).
Supplied per metre.

Int. diam. mm	Ext. diam. mm	Wall thickness mm	Shore	PK	Cat. No.
1	3	1.00	67	1	9.205 700
2	4	1.00	67	1	9.205 701
3	5	1.00	67	1	9.205 702
4	6	1.00	67	1	9.205 703
5	8	1.50	72	1	9.205 704
6	9	1.50	72	1	9.205 705
7	10	1.50	72	1	9.205 706
8	12	2.00	72	1	9.205 707
10	14	2.00	72	1	9.205 708
12	17	2.50	72	1	9.205 709

Tygon® tubing R3603

Special price!

SAINT-GOBAIN



Clear, transparent, Shore A 55. Temperature range -50 to +74°C.
Also suitable for peristaltic pumps.
Supplied per metre or in standard coils of 15m.

Int. diam. mm	Ext. diam. mm	Wall thickness mm	PK	Cat. No.
0.80	2.4	0.80	1	9.205 515
1.60	3.2	0.80	1	9.205 536
1.60	4.8	1.60	1	9.205 537
2.40	4.0	0.80	1	9.205 550
2.40	5.6	1.60	1	9.205 551
3.20	4.8	0.80	1	9.205 561
3.20	6.4	1.60	1	9.205 562
4.00	5.6	0.80	1	9.205 564
4.00	7.2	1.60	1	9.205 566
4.80	6.4	0.80	1	9.205 568
4.80	8.0	1.60	1	9.205 567
4.80	9.6	2.40	1	9.205 569
4.80	11.0	3.20	1	9.205 570
6.40	8.0	0.80	1	9.205 575
6.40	9.6	1.60	1	9.205 576
6.40	11.2	2.40	1	9.205 577
6.40	12.8	3.20	1	9.205 578
8.00	11.2	1.60	1	9.205 583
8.00	12.8	2.40	1	9.205 584
8.00	14.2	3.20	1	9.205 585
8.00	16.0	4.00	1	9.205 586
9.50	12.7	1.60	1	9.205 588
9.50	14.3	2.40	1	9.205 589
9.50	15.7	3.20	1	9.205 590
11.10	14.3	1.60	1	9.205 591
11.10	15.9	2.40	1	9.205 592
11.10	17.5	3.20	1	9.205 593
12.70	15.9	1.60	1	9.205 595
12.70	17.5	2.40	1	9.205 596
12.70	19.1	3.20	1	9.205 597
12.70	20.7	4.00	1	9.205 598
15.90	22.3	3.20	1	9.206 524
19.20	27.2	4.00	1	9.206 545

Messfix tubing gauge, PP

schuett-biotec.de

For rapid measurement of internal and external diameters of tubing.
Colour: red. Measuring range 1.5mm to 16mm.

Width mm	Length mm	Height mm	PK	Cat. No.
50	120	12	1	9.205 800

Innovation at an attractive price

New Products Added To Our Instrument Range

Lab Logistics Group GmbH Am Hambuch 1 | 53340 Meckenheim | Germany
Tel.: +49 (0)2225 - 92 11- 0 | Fax: +49 (0)2225 - 92 11-11 | Mail: info@llg.de | Web: www.llg.com

3-Year Warranty

uni*STIRRER 2*

Simple and inexpensive

A reasonably priced magnetic stirrer without heating for volumes up to 1000ml. Adjustable speed from 0-2000rpm. Plate diameter 120mm. Body made of ABS.

Support rod, aluminium (Cat. No. 6.263 435) available as an optional accessory.

Specifications

Stirring quantity (H_2O):	1000ml
Speed range:	0 to 2000rpm
Permissible ambient temperature:	0~50°C
Permissible relative moisture:	85%
Dimensions (WxDxH):	150 x 135 x 53mm
Material:	ABS case
Weight:	0.5kg
Power supply:	100 - 230 V
Protection class:	IP 21
Guarantee:	3 years

Type	PK	Cat. No.
uni*STIRRER* 2 with EU-plug	1	6.263 430
uni*STIRRER* 2 with UK-plug	1	6.263 431
Support rod, aluminum	1	6.263 435

uni*TEXER 1* 4500rpm

Compact and powerful

Compact test tube shaker with brushless motor drive and touch function. Adjustable speed control up to 4500rpm for excellent mixing results in a very short time. Especially for small volumes.

Specifications

Type of movement	orbital/circular motion
Orbit	4.5mm
Speed range:	0 - 4500rpm
Permissible ambient temperature:	5 - 40°C
Permissible relative moisture:	<80%
Dimensions (WxDxH):	100 x 100 x 70mm
Weight:	0.55kg
Power supply:	100 - 240V, 50/60Hz
Protection class:	IP 43
Guarantee:	3 years

Type	PK	Cat. No.
uni*TEXER* 1 with EU-plug	1	6.263 490
uni*TEXER* 1 with UK-plug	1	6.263 491

uni*CFUGE 5*

With timer and digital display

Compact microcentrifuge with excellent price-performance ratio and a performance of up to 15,595xg. Microprocessor controlled brushless motor for speeds up to 15,000rpm.
Aluminium rotor for 12 x 1.5/2ml tubes with optimised aerodynamics which minimise heat generation and noise during use. Large LCD readout with intuitive and user-friendly interface. Integrated imbalance-detection with automatic shutdown. Wide suction feet provide a stable base.

The centrifuge can be controlled via computer by using the included software that can store up to 99 user-defined programmes.
Operational record output to Excel.

Item consists of:
- Centrifuge with rotor for 12 x 1,5/2ml tubes
- Power supply with USB cable
- 12 Adapters for 0,4/0,5ml tubes
- 12 Adapters for 0,2ml tubes
- Allen wrench with T handle
- Software CD
- User manual

Optional:
- Rotor (Cat. No. 6.263 535) for 16 x 0.2ml tubes or 2 x 8 PCR-stripes

Specifications

Motor:	brushless DC motor
Max. Speed:	variable 500 to 15000rpm
Accuracy Speed:	±100rpm
Max. RCF:	15595xg
Max. Load:	12x2ml PCR tubes
Dimensions (WxDxH):	262 x 230 x 131mm
Weight:	4kg
Power supply:	100 - 240VAC, 50/60Hz
Guarantee:	3 years

Description	PK	Cat. No.
uni*CFUGE* 5 with EU-plug	1	6.263 530
uni*CFUGE* 5 with UK-plug	1	6.263 531
Rotor for 16 x 0,2ml tubes or 2 x 8 PCR-stripes	1	6.263 535

uni*SPEC 4*

Analysis at a glance!

uniSPEC 4 is a reasonably priced UV/VIS-spectrophotometer suitable for advanced pharmaceutical, biochemical and clinical lab applications as well as quality control and routine measurements such as kinetics, wavelength scans, quantitative analysis, multi-wavelength and DNA/Protein analysis. The instrument provides excellent performance for all types of measurements.
The included software enables a complete control of the spectrophotometer from a computer using the built-in USB port. The software can be updated through the internet (for stand-alone instruments). In case of a sudden power cut the data can be restored. It is possible to store and save 200 calibration curves.
Automatic wavelength setting, auto-zero and blank measurements. A Real-time clock to help state date and time of results. Both lamps can be individually turned on/off to extend the durability. A pre-adjusted lamp design allows for fast and easy lamp replacement.

Specifications

Optical System	Single beam, Grating 1200 lines/mm, Silicium Photodiode-detector
Wavelength Range:	190-1100nm
Bandwidth:	1.8nm
Wavelength Accuracy:	±0.3nm
Wavelength Repeatability:	0.2nm
Wavelength Setting:	Automatic
Photometric Accuracy:	±0.3%T
Photometric Repeatability:	0.2%T
Photometric Range:	-0.3-3A, 0-200%T, 0-9999C
Stability:	±0.002A/h at 500nm
Baseline Flatness:	±0.001A/h
Stray Light:	≤0.05%T at 220nm, 360nm
Data Output:	USB port
Printer Port:	Parallel port
Display:	320 x 240 Dots LCD
Standard Cell Holder:	4-position 10mm cell changer
Lamps:	D2 Lamp and W Lamp
Power Requirements:	AC 220V/50Hz or 110V/60Hz
Dimension (WxDxH):	625 x 430 x 206mm
Weight:	28kg
Guarantee:	3 years

Type	PK	Cat. No.
uni*SPEC* 4, with EU-plug	1	6.263 620
uni*SPEC* 4, with UK-plug	1	6.263 621

For more information please visit www.llg-labware.com

Other instruments available and ready to ship!

uni*SPEC* 2

uni*STIRRER* 3

uni*CFUGE* 2

uni*CFUGE* 3

uni*STIRRER* 1

Lab Logistics Group GmbH Am Hambuch 1 | 53340 Meckenheim | Germany
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For more articles see our Laboratory Catalogue from page 896, 1330, 1334 onwards

LLG-Microcentrifuge tubes, PP

The microcentrifuge tubes cover standard volumes for a variety of sample tests. They are available in 0.5ml, 1.5ml and 2.0ml volumes. These standard Microtubes withstand high centrifugal forces, are temperature and chemical-resistant and guaranteed against leaks. An innovative and modern new generation of Microtubes with new features. Perfect sealing qualities, excellent chemical stability and optimal construction materials guarantee even better resistance to centrifugal and chemical forces. Easy to open and to close thanks to the improved lid geometry. For visual volume control the 1.5ml tubes are equipped with graduations at 0.5ml, 1.0ml and 1.5ml. The 2.0ml tubes have graduations at 0.5ml, 1.0ml, 1.5ml and 2.0ml. The 0.5ml tubes are without graduations.
Certified DNase-, RNase- and pyrogen free.

Non sterile, clear, in bags. Certified free of DNase, RNase, suitable for microbiology. Guaranteed metal-free. CE-certified for In-Vitro-Diagnostics acc. to 98/79/EG.

Specifications

Autoclavability

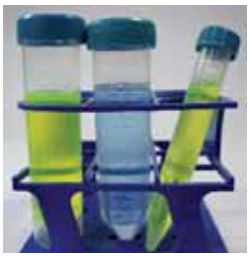
Temperature:	121°C (250°F)
Pressure:	1.05 bar or 15 psig (pounds)
Time:	20 min or less

Centrifugation

Fixed angle rotor:	25000xg
Swing out rotor:	70000xg

Volume	Form	PK	Cat. No.
ml			
0.5	conical	1000	9.409 023
1.5	conical	1000	9.409 024
2.0	round	1000	9.409 025

LLG-Centrifuge tubes, PP



Polypropylene tubes with very good thermal, mechanical and chemical stability. With screw closure. Sterile tubes fitted with screw-on closure. Packed in boxes or bags. With graduations and labelling area. Cytotoxicity-free, DNase/RNase- and human DNA-free.

Centrifugation capacity (Max. RCF): 6000 x g

Capacity	Form	Description	PK	Cat. No.
ml				
15	conical	sterile, single packed	50	9.316 062
15	conical	non-sterile, 8x50 in rack	400	4.008 507
15	conical	non-sterile	500	9.316 063
50	conical	sterile, single packed	50	9.316 064
50	conical	non-sterile	500	9.316 065
50	conical	non-sterile, in rack	50	9.316 066
50	with rim	sterile, single packed	50	9.316 067
50	with rim	non-sterile	50	4.008 506
50	with rim	non-sterile,4x50 in rack	200	4.008 508

LLG-Pasteur pipettes, Soda Lime glass

Single use. With uniform shape and length. With long drawn, 1.1mm diameter fine tip, 20mm suction tube and constriction for tight fitting of cotton wool plugs. External diameter: 7.1mm.
Please order Pipette teats separately.

Length	PK	Cat. No.
mm		
150	1000	9.411 015
230	1000	9.411 020

Pipette teats, natural rubber/latex

Capacity	PK	Cat. No.
ml		
1.8	1	6.265 727

Macropipette controllers

The handwheel allows precise suction of the liquid into the pipette with one hand. The handwheel which enables the suction piston is designed for easy operation by using only the thumb. When the wheel stops, the piston remains in the desired position. The liquid can be blown out by pressing the piston back or allowed to flow out by setting the lateral switch to "Ex". A slight pressure applied to the discharge lever opens the valve and lets the liquid flow out easily.

For	PK	Cat. No.
Pipette volume up to 2ml	1	4.008 322
Pipette volume up to 10ml	1	4.008 323
Pipette volume up to 25ml	1	4.008 324

For more articles see our Laboratory Catalogue from page 123, 1054, 1055, 1065 onwards

Precision forceps kit, 5-parts, stainless steel

Precision Tweezers Kit, anti-magnetic and acid resistant stainless steel in a cardboard box with foam insert, includes:
- 120mm strong, bevel, wide
- 120mm flat, precise, round tips
- 120mm very sharp, fine, short
- 110mm extra fine tips
- 115mm very fine, curved

ideal-tek

Swiss Made

Description	PK	Cat. No.
Precision forceps kit, 5-parts	1	9.160 124

Precision linen testers, plastic

- Linen tester with lateral scale
- Black plastic housing
- Scale: lateral scale with mm graduation

Special price!

ESCHENBACH

Mag-nification	Lens diam. mm	Field of view mm	Height mm	PK	Cat. No.
8x / 30dpt	18	20 x 20	35	1	6.236 477

Micromagnifier with illumination

Suitable for inspecting a wide variety of surfaces such as metals, textiles, minerals, varnishes, etc. The wide focusing range enables raised or depressed features (e.g. holes) to be examined in detail. Supplied with 2 x 1.5V AA batteries.

- Precise focusing with adjustable wheel
- The light can be used when required
- Magnification 30x, glass lenses

Special price!

ESCHENBACH

Mag-nification	Description	PK	Cat. No.
30x	with illumination	1	9.151 594

Digital CMOS Microscope Cameras MOTICAM for all purpose

Ergonomic and compact housing. Exceptional colour resolution.
Ideal for beginners in digital colour microscopy, schools as well as labs.

Motic

- Output: USB 2.0 (cable attachable), progressive Scan, TWAIN-interface
- Supplied with two variable diameter eyepiece couplers, focusable macro lens, macrotube, Motic 4-dot calibration slide, Software Motic Images Plus 2.0 for PC (MI) and MAC
- Operation system: Windows XP (and higher) and Mac OSX

Special price!

Type	Resolution	sensor format	PK	Cat. No.
MOTICAM 1	1MP	1/4" CMOS	1	6.253 608

Illuminated pocket magnifiers, mobilux economy

ESCHENBACH

Special price!

Great value illuminated pocket magnifier with NF filament bulb. Batteries are very handy to change when the battery compartment is opened, the upper and lower sections of the housing remain connected via a hinge and can be easily closed again.
Bulb: NF lens bulb 2.5 V, 250 mA, E10, battery included..

Mag-nification	Lens diam. mm	PK	Cat. No.
7x / 28dpt	35	1	9.151 148
10x / 38dpt	35	1	9.151 149

Precision linen testers, metal

Brass frame, chrome-plated, silk matt finish
Silica glass lenses, biconvex

Special price!

Mag-nification	Lens diam. mm	Field of view mm	PK	Cat. No.
12x / 48dpt	12.5	10 x 10	1	9.151 423
10x / 40dpt	14.5	15 x 15	1	9.151 427
8x / 32dpt	17.5	20 x 20	1	9.151 433
6x / 24dpt	22.5	25 x 25	1	9.151 442
5x / 20dpt	31.5	30 x 30	1	9.151 453

For more articles see our Laboratory Catalogue from page 345, 359, 362 onwards

LLG-Sample dishes, Aluminium

High quality aluminium sample dishes, for moisture determination.

Swiss Made

Diam. mm	Height mm	PK	Cat. No.
100	7	80	6.265 408

LLG weighing scoops, porcelain

Length mm	PK	Cat. No.
37	1	9.115 350
53	1	6.241 255
64	1	9.115 351

LLG-Weighing Boats, antistatic, PS

Biologically inert and resistant to dilute and weak acids, aqueous solutions, alcohols, and bases. Temperature range -10 to +70°C. Can be used with microwave moisture analysers.

square

Boats are shallow with a wide, flat bottom to resist tipping. Rounded corners simplify transfer.

Capacity ml	Dimensions (W x D x H) mm	Colour	PK	Cat. No.
7	46 x 46 x 8	White	1000	9.900 785
100	85 x 85 x 24	White	1000	9.900 786
250	140 x 140 x 22	White	1000	9.900 787
7	46 x 46 x 8	Black	1000	9.900 789
100	85 x 85 x 24	Black	1000	9.900 791

hexagonal

Same as square. Bend flexible boats at points to form pour spouts. Flat bottoms to resist tipping. Sloping sides provide accurate transfer.

Size	Dimensions mm	Colour	PK	Cat. No.
Small	38 x 25 x 9	white	500	9.900 893
Medium	64 x 51 x 19	white	500	9.900 894
Large	102 x 76 x 22	white	500	9.900 895
X-Large	127 x 89 x 31	white	500	9.900 896

Playing card rejects

Standard size for use as disposable sample carriers or spatulas. Printed and laminated on both sides . Pack size: 1kg, not sorted

Type	PK	Cat. No.
Playing card rejects	1	9.190 940

Compact balances Type EMB

Special price

Economically priced, battery-operated models. Large LCD readout with 15mm high digits. "Weigh-in" function simplifies mixing. Supplied with 4 x 1.5V AA batteries. With d.c. power connection socket (accessory mains adapter Cat. No. 6.082 721 sold seperately). Auto-off function activates after 3 minutes without use for saving battery power.

Dimensions (WxDxH): 170 x 240 x 38mm
Net weight: approx. 600g

Type	Capacity g	Read-ability g	Reproduci-bility ± g	Linearity ± g	Plate diam. mm	PK	Cat. No.
EMB 100-3	100	0.001	0.001	0.003	82	1	6.238 426
EMB 200-2	200	0.01	0.01	0.02	105	1	9.901 320
EMB 600-2	600	0.01	0.01	0.03	105	1	9.901 321
EMB 1000-2	1000	0.01	0.01	0.03	150	1	6.235 728
EMB 500-1	500	0.1	0.1	0.2	150	1	9.901 322
EMB 1200-1	1200	0.1	0.1	0.3	150	1	9.901 323
EMB 5.2K1	5200	1.0	1.0	3.0	150	1	9.901 324
EMB 2200-0	2200	1.0	1.0	2.0	150	1	9.901 371

Weighing paper MN 226

Transparent, smooth.
Block of 100 sheets.

Type	Width mm	Length mm	PK	Cat. No.
MN 226	90	115	100	9.058 975

Weighing Papers, Nitrogen free

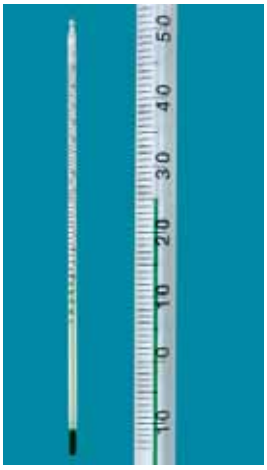
- Especially suitable for Kjeldahl digestion
- Nitrogen free for a very smooth surface and good sample recovery
- Strong enough to support dense material

Dimensions (D x W) mm	PK	Cat. No.
76 x 76	500	9.059 016
102 x 102	500	9.059 017
152 x 152	500	9.059 018

For more articles see our Laboratory Catalogue from page 363, 367, 370 onwards

LLG General-purpose thermometers

9.235 250



9.235 277

Red filling
Enclosed-scale type, with eyelet. With uncoated, prismatic measuring capillary. Red spirit filling (except 9.235 265: blue).

Measuring range °C	Length mm	Graduations °C	Diam. mm	Immersion depth	PK	Cat. No.
-10/0 ... +50	200	1	7 - 8	total	1	9.235 245
-10/0 ... +100	260	1	7 - 8	total	1	9.235 250
-10/0 ... +150	260	1	7 - 8	total	1	9.235 255
-10/0 ... +200*	300	1	7 - 8	total	1	9.235 260
-10/0 ... +250*	300	1	7 - 8	total	1	9.235 265

* Note: With these types the colour can fade after extended periods of use at higher temperatures.

Green filling
Glass, solid stem, with loop, white backed. Environmentally friendly thermometer, with biodegradable, green spirit filling.

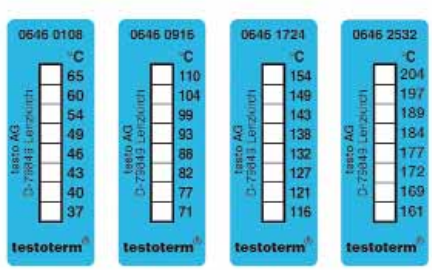
Measuring range °C	Length mm	Graduations °C	Diam. mm	Immersion depth mm	PK	Cat. No.
-10/0 ... +110	300	1.0	6-7	76	1	9.235 275
-10/0 ... +110	300	0.5	6-7	76	1	9.235 276
-10/0 ... +150	300	1.0	6-7	76	1	9.235 277
-10 ... +250	300	2.0	6-7	76	1	9.235 278
-10 ... +360	300	2.0	6-7	76	1	9.235 279

Laboratory Min./Max. thermometer

Display of current, highest and lowest temperature, hold function, alarm at freely adjustable temperature values (upper/lower limit), measuring range -50 to +70°C, accuracy ±0.5°C at -20 to +25°C, otherwise ±1°C, selectable °C/°F readout. Supplied with table stand and magnet, probe with 3m cable and 3V Lithium CR2032 button cell (acc. to EN 13485). Dimensions: 86 x 57 x 30mm. Weight: 100g.

Type	PK	Cat. No.
Laboratory Max./Min. thermometer	1	9.851 022

8-step irreversible temperature strips testoterm®



4 types cover the measuring range +37° ... +199°, each strip displays 8 different temperatures. Each strip measures 50 x 18mm.

Type	Measuring range °C	PK	Cat. No.
06460108	+37 ... +65	10	9.246 002
06460916	+71 ... +110	10	9.246 003
06461724	+116 ... +154	10	9.246 004
06462532	+160 ... +199	10	9.246 005

Thermometer Pocket-Digitemp

Waterproof instrument in plastic housing (food-grade). Low budget, durable instrument for measuring temperature in air, gas, liquid and platical substances (acc. to EN 13485). Battery included.

Range of applications: Food (HACCP), industry, agriculture.
Features: waterproof, 1-second measuring frequency, Min-Max-Hold function, °C/°F-selectable.

Sensor:	NTC
Measuring range:	-40°C to +200°C
Resolution:	0.1°C
Accurancy:	±0.8°C (at 0°C to 100°C) others 1.5°C
Dimensions:	150 x 20 x 16mm (short version) 202 x 20 x 16mm (long version)
Probe dimensions:	75 x 3.5mm (short version) 126 x 3.5mm (long version)
Weight:	40g

Type	PK	Cat. No.
short version	1	9.851 028
long version	1	9.851 029

For more articles see our Laboratory Catalogue from page 34, 42, 48, 393 onwards

Sample containers, PS, with metal cap, sterile

Ideal for sample collection and storage. Made of virgin polystyrene. All materials are non-cytotoxic. For In Vitro use only. CE Marked in accordance with the European Directive 98/79/CE. The metal cap with inert PVC-Liner ensures leak proof seal.

Capacity ml	Diam. with cap mm	Height with cap mm	PK	Cat. No.
60	43	60	60	6.261 958
100	49	75	40	6.261 959
250	63	121	25	6.261 960

Laboratory Short period timer Compact

Digital reading, with alarm and repeat function.
12hr. clock function.
Countdown and countup display: 23hrs, 59mins, 59secs.
Battery SR 44 inclusive.

Dimensions (W x H x D): 64 x 60 x 16mm
Weight: 40 g

Type	PK	Cat. No.
Compact timer	1	9.262 071

Tube Rack Adapt-a-Rack™, POM

Capable of holding different size tubes in each available slot as the well literally adapts to your tube size to hold firmly in an upright position. The design enables you to hold 12 to 30mm (5 to 50ml) tubes simultaneously and still allow full viewing of the tube label. Available in solid or combination colours for application. Racks can be linked together for additional holding capacity. Autoclavable. Dimensions (WxDxH): 181 x 56 x 76mm

Colour	PK	Cat. No.
Blue	2	9.194 027
Green	2	9.194 028
White	2	9.194 029

Folding Box mini/midi, PP, foldable and stackable

A straightforward and tough folding mechanism permits for safe and easy handling. Dishwasher safe, food safe. Autoclavable at 120°C, enduring temperature stability from -40°C to +90°C.

Folding Box mini
Volume 4 liter, weight 180g, load 2.5kg.

Colour	Dimensions mm	PK	Cat. No.
black	265x171x105	1	9.301 480
white	265x171x105	1	9.301 481
blue	265x171x105	1	9.301 482
yellow	265x171x105	1	9.301 483
red	265x171x105	1	9.301 484

Folding Box midi
Volume 14.5 liter, weight 300g, load 8kg.
Two Mini size folding boxes fit perfectly into the Midi.

Colour	Dimensions mm	PK	Cat. No.
black	400x300x145	1	9.301 485
white	400x300x145	1	9.301 486
blue	400x300x145	1	9.301 487
yellow	400x300x145	1	9.301 488
red	400x300x145	1	9.301 489

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LLG-Vacuum desiccator cabinets, polycarbonate, square form, "Heavy Duty"

High-quality and stable construction made of polycarbonate. Highly transparent, lightweight, shatterproof and stackable. Silicon O-ring and specially designed locking clip' allows use without grease. Three-way stopcock provides great convenience for consistent vacuum draw, vacuum release or gas exchange e.g. inert gas. Maximum vacuum of 1 Torr (1.3mbar; 1.33 x 10^{-4} MPa) for more than 72 hours, with built-in vacuum gauge.

Also available in brown with UV-blocking effect for light sensitive samples.

Included in delivery: Vacuum gauge, O-ring, drying agent tray, 2 x perforated sample trays (models: VDC-11 and VDC-21) or 3 x perforated sample trays (models: VDC-31 and VDC-41).

Type	External dimensions (W x D x H) mm	Internal dimensions (W x D x H) mm	Capacity litres	Max. number shelves	PK	Cat. No.
VDC-11	322 x 285 x 271	248 x 254 x 238	11	4	1	9.042 769
VDC-21	420 x 392 x 281	346 x 365 x 246	23	4	1	9.042 767
VDC-31	420 x 397 x 381	355 x 375 x 345	35	5	1	9.042 765
VDC-41	420 x 397 x 491	355 x 374 x 445	45	6	1	9.042 763

Water jet pumps, PP

Water jet pump, including
- Mains water connections: R ¾" sleeve nut, R ½" reducing adapter and flexible tubing connection (nozzle) with external diameter from 10mm to 12mm.
- Vacuum connection: Detachable nozzle with external diameter from 6mm to 9mm and GL 14 screw cap.

Performance characteristics at 3.5 bar water supply pressure at 12°C

Water consumption:	190L/hr.
Ultimate vacuum:	16 mbar
Flow rate at atmospheric pressure:	400L/hr. free air

Special price!

Type	PK	Cat. No.
Water jet pump	1	9.303 125
Reducing adapter R 3/8" for water jet filter pump	1	7.020 037
Reducing adapter M 22x1 for water jet filter pump (thread for screen tap)	1	7.020 038